



Introduction

The **AT-HDVS-200-TX-WP** is a 2x1 wall plate switcher for HDMI and VGA inputs with HDBaseT output. It features a US, two-gang, Decora form factor with one HDMI and one VGA input with an always-on 3.5mm audio connector. HDMI signals up to 4K/UHD @ 60Hz (YUV 4:2:0 color sub-sampling), VGA input signals up to 1920x1200, embedded audio, and control signals can be extended up to 330 feet (100 meters). The switcher receives power from the AT-HDVS-200-RX scaler via Power over Ethernet and together they create a standalone AV switching and control system with scaling for classrooms and huddle rooms. Display control and volume commands are transmitted via CEC, IP, or RS-232 to any display, control system, switcher or other controllable device.

The **AT-HDVS-200-TX-WP** can be the central component of a small, automated AV system. Automatic display control turns-on the display automatically whenever a source is connected. When the source is removed, the display is turned off. Volume is controlled by using the front panel or other control signals. Automatic input selection on the AT-HDVS-200-TX-WP works by sensing the presence of any video signal. With automatic input selection, manual control systems can be eliminated.

Using the AT-PS-POE, it can connect directly to Atlona HDBaseT receivers such as the AT-UHD-EX-100CE-RX or projectors with HDBaseT inputs, enabling simplified control and adding legacy VGA inputs at the HDVS.

Applications

- Complete system applications**
 The HDVS-200-TX-WP and OME-RX21 or HDVS-200-RX together provide a compact, yet comprehensive and cost-effective system integration solution with automatic input selection, HDBaseT extension, display control capabilities, room control, and essential audio processing.
- Larger system applications**
 The HDVS-200-TX-WP is ideal for extending AV connectivity from a central equipment rack to lecterns as well as remote wall and floor box locations, where presenters can easily access the system.

Key Features

US two-gang enclosure for Decora-style wallplate openings

- Allows inconspicuous installation on a wall, in furniture, or in a floor box.
- Includes white wallplate.
- Ships with Ethernet port concealed – interchangeable faceplate included with port opening.
- Also available in black – AT-HDVS-200-TX-WP-BLK.

2×1 HDBaseT switcher

- Features an HDMI input plus a VGA input with audio.
- Allows advanced HDMI display devices to be used with legacy VGA sources.
- Audio input can be assigned to either video input.
- Audio-only playback available without video signal present.

Remotely powered via PoE (Power over Ethernet)

- IEEE 802.3af PoE Powered Device (PD).
- Power for transmitter is supplied by the AT-OME-RX21, AT-HDVS-200-RX, or other Atlona device over HDBaseT.
- Saves time and integration costs.

Automatic display control

- Automatically changes display power state based on active or standby mode of the switcher. Control signals to display are transmitted via IP, RS-232, or CEC.
- Enables display and volume control. CEC enables control of consumer displays.
- Eliminates the need for a complex AV control system.

Automatic input selection using hot plug detect and video detection technology

- Selects active input when sources are connected or if there is a change in source power status.
- Enables simplified, automatic system operation with no user intervention necessary.

TCP/IP and RS-232 control of switcher

- Flexible control options for compatibility with third-party control systems.
- Reduces integration time and costs.

4K/UHD capability @ 60 Hz with 4:2:0 chroma subsampling

- Compatible with sources up to 4K/60 4:2:0 and 4K/30 4:4:4.
- Allows 4K/UHD transmission when used with a compatible HDBaseT-equipped display or HDBaseT receiver.

Front panel volume control

- Remotely controls audio volume; provides 'Mute' mode.
- Eliminates need for manual operation of display or use of IR remote control.

HDCP 2.2 & 1.4 compliant

- HDCP 1.4 compliant when used with the AT-HDVS-200-RX.
- HDCP 2.2 compliant when used with an HDCP 2.2 compliant receiver or switcher, such as the AT-OME-RX21 or AT-HDVS-SC-RX.
- Allows protected content stream to pass between authenticated devices.

Extended distance HDBaseT extension

- Transmits AV, control, and Ethernet up to 330 feet (100 meters) @ 1080p with CAT5e/6 or 4K/UHD using CAT6a/7 cable.
- Uses easy-to-integrate category cable for low-cost, reliable system installation.

EDID management

- Manages EDID communications between source and switcher; allows integrators to force a source to a preferred resolution.
- Ensures desired audio formats and video resolutions are provided to the AV system.

HDCP management

- HDCP compliance can be disengaged through AMS or a control system.
- Allows non-protected material from PCs to pass to non-compliant displays, streaming devices, and teleconference systems; protected content is not transmitted.

Key Features (continued)

Front panel input select button

- Overrides auto-switching when more than one active source is present.
- Simple manual operation allows presenter to maintain control of AV system.

Front panel display on/off control

- Remotely controls display power state.
- Alternate mode available to mute video output and send display into standby.
- Eliminates need for manual operation of display or use of IR remote control.

Front panel volume control

- Remotely controls a display's internal audio volume using TCP/IP or RS-232.
- Muting also available via AMS or third-party control system.
- Eliminates need for manual operation of display or use of IR remote control.

Integrated HDBaseT link status monitoring

- Continuously monitors integrity of the HDBaseT cable link between the transmitter and the receiver.
- Web GUI provides real-time link status, plus detailed HDBaseT and HDMI signal information.
- Quick, easy verification or troubleshooting of RJ-45 termination or twisted pair cable quality.

Configured and managed by AMS (Atlona Management System)

- This IP-controllable product is remotely managed by the Atlona Management System software.
- Integrates product configuration, management, and updates to reduce installation time and enable remote support.

Field-updatable firmware

- USB port provides an easy means for device updates.
- Ensures long-term system return on investment.

Front panel power and input selection status LEDs

- LED indicators provide power and input selection status information.
- Provides easy setup and troubleshooting.

Included accessories

- User guide, white wallplate, and interchangeable faceplate with Ethernet port opening.

Award-winning 10 year limited product warranty

- Ensures long-term product reliability and performance in commercial and residential systems.
- Specify, purchase, and install with confidence.

Specifications

Video		
Signal	HDMI	
Copy Protection	HDCP 1.4/2.2	
Pixel Clock	300MHz	
UHD/HD/SD	4096x2160@60 ⁽¹⁾ /50 ⁽¹⁾ /30/25/24Hz 3840x2160@60 ⁽¹⁾ /50 ⁽¹⁾ /30/25/24Hz 1080p@60/59.9/50/30/29.97/25/ 24/23.98Hz 1080i@30/29.97/25Hz	720p@60/59.94/50Hz 576p@50Hz 576i@25Hz 480p@60/59.96Hz 480i@30Hz
VESA All resolutions are 60Hz	2560x1600 2048x1536 1920x1200 1680x1050 1600x1200 1440x900 1400x1050 1280x1024	1280x800 1366x768 1360x768 1152x864 1024x768 800x600 640x480
Color Space	YUV, RGB	
Chroma Subsampling	4:4:4, 4:2:2, 4:2:0	
Color Depth	8-bit, 10-bit, 12-bit	

Audio			
Audio In	PCM 2Ch		
HDMI / HDBaseT Pass-Through Formats	PCM 2.0 LPCM 5.1 LPCM 7.1	Dolby® Digital Dolby Digital Plus™ Dolby TrueHD Dolby Atmos®	DTS® Digital Surround™ DTS-HD Master Audio™ DTS:X®
Bit Depth	up to 24-bit		
Sample Rate	32 kHz, 44.1 kHz, 48 kHz, 88.2 kHz, 96 kHz, 176.4 kHz, 192 kHz		

Resolution / Distance	4K/UHD - Feet / Meters		1080p - Feet / Meters	
HDMI IN/OUT	15	5	30	10
CAT5e/6	230	70	330	100
CAT6a/7	330	100	330	100

Control	
CEC	Pass through

Buttons and Indicators	
Buttons: INPUT, DISPLAY, VOL+, VOL-	4 - momentary, tact-type
Function Indicators: PWR LINK	1 - LED, green 1 - LED, yellow

Connectors	
HDMI IN	1 - Type A, 19-pin female
VGA IN	1 - DE15, female
HDBaseT OUT	1 - RJ45, female
LAN	1 - RJ45, female

Environmental	Fahrenheit	Celsius
Operating	+32 to +122	0 to +50
Storage	-4 to 140	-20 to 60
Humidity (RH)	20% to 60%, non-condensing	

Power	
Consumption	30 W (when paired)
BTU/h	32.5

Dimensions (H x W x D)	
Unit	2-gang

Weight	Pounds	Kilograms
Unit	0.5	0.23

Certification	
Device	CE, FCC

Warranty	
Device	To view the product warranty, use the following link: https://atlona.com/warranty

Accessories

SKU	Description
AT-LC-H2H-1M	LinkConnect HDMI to HDMI 1 Meter Cable
AT-LC-H2H-2M	LinkConnect HDMI to HDMI 2 Meter Cable
AT-LC-H2H-3M	LinkConnect HDMI to HDMI 3 Meter Cable

Footnotes

(1) 4096×2160@50/60Hz & 3840×2160@50/60Hz supported @ chroma subsampling 4:2:0 8-bit only.

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